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	closure Statement	Applicant Kevin R. Heath	
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			U.S. Patent	Documents		· · · · · · · · · · · · · · · · · · ·	
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	Foreign Patent Documents or Published Foreign Patent Applications								
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98	AL	G 90 14 230.6	Nov. 21, 1991	Germany			:	x	
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U.S. Patent Documents							
Examiner Initial	Desig.	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
72	AA	6,527,802 B1	03/2003	Mayer			
1	AB	6,491,719 B1	12/2002	Fogarty et al.			
	AC	6,419,693 B1	07/2002	Fariabi			/ {
	AD	6,290,721 B1	09/2001	Heath			
	AE	6,287,331 B1	09/2001	Heath			
	AF	6,277,084 B1	08/2001	Abele et al.			
	AG	6,270,524 B1	08/2001	Kim			
	AH	6,238,409 B1	05/2001	Hojeibane			7
	AI	6,206,915 B1	03/2001	Fagan et al.			/ }
	AJ	6,165,212	12/2000	Dereume et al.			
	AK.	6,165,210	12/2000	Lau et al.		,	
	AL	6,033,719	03/2000	Keogh		7	
	AM	6,027,528	02/2000	Tomonto et al.			
	AN	6,017,362	01/2000	Lau			
	AO	6,015,432	01/2000	Rakos et al.			
	AP	6,001,123	12/1999	Lau		1	
	AQ	5,948,018	09/19991	Dereume et al.		7	
	AR	5,928,916	07/1999	Keogh		1	
	AS	5,925,552	07/1999	Keogh et al.		/	
	AT	5,891,193	04/1999	Robinson et al.		<i>y</i>	
	AU	5,891,191	04/1999	Stinson			
	AV	5,849,037	12/1998	Frid			
	AW	5,824,077	10/1998	Mayer	7		
	AX	5,800,520	09/1998	Fogarty et al.	1		
	AY	5,800,511	09/1998	Mayer			
	AZ	5,690,670	11/1997	Davidson			
1	AAA	5,679,470	10/1997	Mayer			

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attomey's Docket No. 10527-118004	Application No. 09/924,275	
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	U.S. Patent Documents						
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
B	ABB	5,667,486	09/1997	Mikulich et al.		_	
	ACC	5,443,496	08/1995	Schwartz et al.			
	ADD	5,397,293	03/1995	Alliger et al.			
	AEE	5,248,296	09/1993	Alliger			
	AFF	5,123,919	06/1992	Sauter et al.			
	AGG	5,032,128	07/1991	Alonso			
	АНН	4,994,071	2/1991	MacGregor			
	AII	4,892,541	01/1990	Alonso			
	AJJ	4,732,152	03/1988	Wallsten et al.			
	AKK	4,680,031	07/1987	Alonso			
	ALL	4,655,771	04/1987	Wallsten			
	AMM	4,629,458	12/1986	Pinchuk		/ · ·	
·	ANN	4,553,545	11/1985	Maass et al.			
	A00	4,431,006	02/1984	Trimmer et al.			
	APP	4,428,379	01/1984	Robbins et al.			
	AQQ	3,749,086	07/1973	Kline et al.			
	ARR	3,390,173	12/1975	Banko	/		

	Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Trans Yes	lation No	
R	ASS	0 346 564 B1	02/1989	Europe					
1	ATT	0 421 729 A2	04/1991	Europe					
	AUU	067 929	12/1982	Germany					
	AVV	40 18 163 A1	12/1991	Germany (full)			x		
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	Other Documents (include Author, Title, Date, and Place of Publication)										
Examiner Initial	Desig. ID	Document									
92	AZZ	Annual Book of ASTM Standards, Section 13, Vol. 13.01 Medical Devices, pp. 128-130 and 401-404.									
R	AAAA	"Standard Test Methods for Radiopacity of Plastics for Medical Use", ASTM Designation F'640-79, pp. 1074-1078, 1980									

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. Application No. 10527-118004 09/924,275					
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₩.	AA	Sho 56- 156152	09/28/1982	JP			х					
)	AB	2-116381	05/01/1990	JP			х					
	AC	2-174859	07/06/1990	JP			х					
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0	AR			AL	lige	er,	וטיי	tra	sonic Disru	ption", Am. Lab	. (a journal), Vol. 7, No.	10, 1975, p	p. 75-76, 7	8, 80-82,	84,	
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	AS			AL	lige	er e	et e	al.,	"Tumoricid	al Effect of a	New Ultrasonic Needle", Fed	eration Pro	ceedings -	Abstracts	3,	
		1	$\perp$		_					985, p. 1145.			·			
	. AT	L		Ar	iani	i et	al	١.,	"Dissolutio	n of Peripheral	Arterial Thrombi by Ultras	ound", Circ	ulation (An	merican Ke	ert	
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	85	-	Chaussy et al., "Transurethral Ultrasonic Ureterolithotripsy Using a Solid-Wire Probe", Urology, Vol. XXIX, No. 5, May 1987, pp. 531-532.											
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			$\perp$	$\perp$	Debris Size", The American Journal of Cardiology, Vol. 68, No. 2, July 15, 1991, pp. 242-246.														
		cv	L		freeman et al., "Ultrasonic Angioplasty Using a New Flexible Wire System", Journal of the American College														
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		$\vdash$	1	Goo	dfr	ien	d, 1	יטני	rasonic Ure	terolithotripsy	Employed in a flexible Ure	teroscope"	, The Journ	al of Urc	ology,
	DT		1	Vol	. 1:	39,	No.	. 4,	Part 2, Ap	oril 1988, p. 28	ZA.				
	1		1	Goo	dfr	ien	d, '	۳Vlt	rasonic and	Electrohydraul	ic Lithotripsy of Ureteral	Calculi",	Urology, Vo	l. XXIII,	, No. 1,
	DU	January 1984, pp. 5-8.													
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		EB	4	8	1	6	0	1	8	03/28/89	Parisi				15.	
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		ES	ļ	+-	_		_		Dis	integration	tegration of Ureteral Calculi by Ultrasound", Urology, Vol. I, No. 3, March 1973,					
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		Τ	T	Runi	ter	et	at	., '	Transurethr	al Ultrasonic U	retero-lithotripsy", The	Journal of U	Jrology, Vol	. 135, No. 4,
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<b>P</b>	CO	L		Mon	tev	erd	e e	t a	l., "Ultrase	ound Arterial Rec	canalization in Acute Myoca	rdial Infa	rction", Su	pplement to
9E				Cir	cul	ati	on	(Am	erican Hear	Association),	/ol. 82, No. 4, October 199	0, p. III-	622.	·
	GP			Mon	tev	erd	e e	t a	l., "Percuta	aneous Translumi	nal Ultrasonic Angioplasty	in Totally	Occluded P	eripheral
ĺ	"			Art	eri	es:	ı	mne	diate and I	ntermediate Clin	ical Results", Supplement t	o Circulat	ion (Americ	an Heart
	<u> </u>			Ass	oc i	ati	on)	, v	ol. 82, No.	4, October 1990	, p. 111-678.			
	GQ		$\perp$	Ros	ens	che	in	et	al., "Clinie	cal Experience w	ith Ultrasonic Angioplasty	of Totally	Occluded P	eripheral
		_	┿			_			<del></del>		of Cardiology, Vol. 15, No			
	GR	L	1	Sie	gel	ęt	al	•,,	"In Vivo Ul	trasound Arteria	l Recanalization of Atheros	iclerotic T	otal Occlus	ions", Journal
		<u> </u> _	+								. 15, No. 2, February 1990,			
	GS	_	1	Sie	gel	et	al	• ,	"Percutaneo	us Ultrasonic An	gioplasty: Initial Clinical	Experienc	e <sup>n</sup> , The Lan	cet, Vol. 11,
	ļ	_	╬						<del></del>	39, pp. 772-774.				
1	GT Siegel et al., "Ultrasonic Plaque Ablation - A New Method for Recanalization of Partially or Totally													
	<u>L</u>	<u> </u>		0cc	lud	ed .	Art	eri.	es", Circula	tion, Vol. 78, 1	No. 6, December 1988, pp. 1	443-1448. <del> </del>		<u> </u>
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Application No. Attorney's Docket No. 10527-118004 09/924,275 Applicant INFORMATION DISCLOSURE STATEMENT BY APPLICANT Kevin R. Heath (Use several sheets if necessary) Group Art Unit Filing Date 3738 August 08, 2001 U.S. PATENT DOCUMENTS FILING DATE EXAMINER DOCUMENT NUMBER DATE NAME CLASS SUBCLASS IF APPROPRIATE INITIAL 10/20/81 Shihata 05/13/80 Jones 02/19/80 Loschilov et al. HC 3 5 12/18/79 HD 9 Gekhman et al. 08/16/77 Elliott et al. HE HF 05/17/77 Thorne et al. 2 05/18/76 5 8 Perdreaux, Jr. 03/09/76 Shock HH 2 03/02/76 Jones 12/30/75 3 10 Banko HJ 10 S 8 07/29/75 Storz 6 9 01/21/75 Antonevich et al. н 0 l٨ 08/20/74 Antonevich et al. 07/16/74 Pohlman et al. HN 7 8 04/29/74 0 5 8 Banko 11/09/71 Flynn HP 5 9 11/09/71 Banko 3 10 09/20/71 Sheridan HR 16 Banko et al. 3 06/26/71 3 5 6 8 3 5 0 6 01/26/71 Alliger HT 09/15/70 Banko 2 3 13 5 08/15/67 Parisi et al. HV 3 07/27/65 9 Miller 6 OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) "Standard Test Methods for Radiopacity of Plastics for Medical Use", ASTM Designation F 640-79, pp. HX 1074-1078, 1980. Search reports HY HZ Patent Search Report DATE CONSIDERED EXAMINER 08/23/2004 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 10527-118004

Application No. 09/924,275

Information Disclosure Statement by Applicant

(Use several sheets if necessary)

Applicant Kevin R. Heath.

evin R. Heath.

Group Art Unit 3738

Substitute Disclosure Form (PTO-1449)

(37 CFR §1.98(b))

Filing Date
August 8, 2001

**U.S. Patent Documents** Filing Date Patent Examiner Desig. Subclass If Appropriate Class Issue Date Patentee Number Initial ID 05/11/99 Schatz 5,902,332 AA 03/09/99 Boneau 5,879,382 AB Eckert et al. AC 5,858,556 01/12/99 Wall 12/01/98 5,843,163 AD Ш 03/31/98 Tomonto et al. 5,733,326 AE m 03/10/98 Heath 5,725,570 AF 03/10/98 Lam AG 5,725,549 08/19/97 Bates et al. 5,658,296 AH 05/20/97 Mayer 5,630,840 ΑI 03/11/97 Fearnot et al. AJ 5,609,629 09/17/96 Lam AK 5,556,413 05/07/96 Lau et al. 5,514,154 AL Dubrul et al. 5,498,236 03/12/96 AM 03/05/96 Bates et al. AN 5,496,330 12/12/95 Myler et al. 5,474,563 A0 5,389,106 02/14/95 Tower AP 01/17/95 Phelps et al. AQ 5,382,259 12/20/94 Yoon 5,374,261 AR 5,360,442 11/01/94 Dahl et al. AS 10/11/94 Schnepp-Pesch et al. AT 5,354,309 Tang et al. 10/26/93 5,256,764 AU 5,217,483 01/08/93 Tower ΑV 05/04/93 Menaker, M.D. 5,207,706 AW Hess 05/28/96 B1 5,197,978 AX Froix 11/17/92 5,163,952 AY 11/17/92 Kagawa et al. AZ 5,163,433 10/06/92 Goldberg et al. AAA 5,152,777

Examiner Signature	Date Considered 08/23/2004
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Application No. Attorney's Docket No. U.S. Department of Commerce Substitute Form PTO-1449 09/924,275 Patent and Trademark Office 10527-118004 (Modified) Applicant Information Disclosure Statement Kevin R. Heath by Applicant
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			U.S. Pate	ent Documents			
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
<b>Q</b> 2	ABB	5,147,385	09/15/92	Beck et al.			/
	ACC	5,129,890	07/14/92	Bates et al.			
	ADD	5,111,829	05/12/92	Alvarez de Toledo			/O
	AEE	5,109,830	05/05/92	Cho			/8
	AFF	5,104,404	04/14/92	Wolff			/ W
	AGG	5,095,915	03/17/92	Engelson			/ 👼
	АНН	5,092,877	03/03/92	Pinchuk			AVAIL ABL
	AII	5,071,407	12/10/91	Termin et al.			/ A
	AJJ	5,069,226	12/03/91	Yamauchi et al.			€
	AKK	5,069,217	12/03/91	Fleishhacker, Jr.			1
	ALL	5,064,435	11/12/91	Porter		/_	BEST
	AMM	5,064,428	11/12/91	Cope et al.		<u> </u>	Ш
	ANN	5,061,275	10/29/91	Wallsten et al.			
	A00	5,052,407	10/01/91	Hauser et al.			
	APP	5,026,377	06/25/91	Burton et al.			
	AQQ	5,019,090	05/28/91	Pinchuk			<u> </u>
	ARR	5,019,085	05/28/91	Hillstead			
	ASS	5,015,253	05/14/91	MacGregor		1/	
	ATT	5,012,797	05/07/91	Liang et al.		1/	
	AUU	5,003,989	04/02/91	Taylor et al.		1	
	AVV	5,003,987	04/02/91	Grinwald		<b>/</b>	<u> </u>
	AWW	4,990,151	02/05/91	Wallsten	//	<u>/                                    </u>	
	AXX	4,984,581	01/15/91	Stice	/		
	AYY	4,980,964	01/01/91	Boeke			<u> </u>
	AZZ	4,969,891	11/13/90	Gewertz	/		<u> </u>
	AAAA	4,964,409	10/23/90	Tremulis	$\bot\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$		
1	ABBB	4,954,126	09/04/90	Wallsten	V		

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			U.S. Pate	nt Documents	<del>_</del>		
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Ø₽	ACCC	4,925,445	05/15/90	Sakamoto et al.			
	ADDD	4,886,062	12/12/89	Wiltor			<b>1 1 1 1 1 1 1 1 1 1</b>
	AEEE	4,884,579	12/05/89	Engelson			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	AFFF	4,883,486	11/28/89	Kapadia et al.			/ w
	AGGG	4,875,480	10/24/89	Imbert			7 2
	АННН	4,850,999	07/25/89	Planck			1 / 1
	AIII	4,848,348	07/18/89	Craighead			AVA
	AJJJ	4,848,343	07/18/89	Wallstead et al.			
	AKKK	4,846,186	07/11/89	Box et al.			BEST
	ALLL	4,834,747	05/30/89	Gogolewski			/ <u>w</u>
	AMMM	4,830,262	05/16/89	Ishibe		/	
	ANNN	4,771,773	09/20/88	Kropf			<u> </u>
	A000	4,770,664	09/13/88	Gogolewski			
	APPP	4,760,849	08/02/88	Kropf		<del>                                     </del>	
	AQQQ	4,733,665	03/29/88	Palmaz		<del>                                     </del>	
	ARRR	4,731,084	03/15/88	Dunn et al.		<u> </u>	
	ASSS	4,719,916	01/19/88	Ravo		1/	ļ <u> </u>
	ATTT	4,654,092	03/31/87	Melton		<del>\</del>	
	AUUU	4,600,446	07/15/86	Torisaka et al.		<del></del>	
	AVVV	4,553,564	11/19/85	Baram		<b></b>	
	AWWW	4,535,759	08/20/85	Polk et al.			
	AXXX	4,465,481	08/14/84	Blake		<b>/</b>	
	AYYY	4,380,574	04/19/83	Gessinger et al.		/	
	AZZZ	4,281,419	08/04/81	Treace	//		
	AAAAA	3,749,086	07/31/73	Kline et al.	/_		
	ABBBB	3,584,327	06/15/71	Миггу	/_		
	ACCCC	3,562,024	02/09/71	Smith et al.			

Examiner Signature	Date Considered 08/23/2004
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10527-118004	Application No. 09/924,275		
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
OR.	ADDDD	3,446,166	09/09/69	Levinstein et al.			
SE	AEEEE	2,524,661	10/03/50	Harder et al.			

Examiner	Desig.	Document	Publication	ublished Foreign Country or			1 rans	slation
Initial	ID ID	Number	Date	Patent Office	Class	Subclass	Yes	Qlo
R	AFFFF	WO93/19804	14 Oct. 93	WIPO				<u> </u>
1	AGGGG	WO93/19803	14 Oct. 93	WIPO				B
	АННН	59-19958	1978	Japan				3
_	AllII	53-19958	23 Feb. 78	Japan				3
1	AJJJJ	2479685	30 Mar. 81	France				A
	AKKKK	0593136A1	11 Dec. 90	Europe				တ
	ALLLL	0556940A1	13 Feb. 87	Europe		<u> </u>		<b>B</b> _
	AMMMM	0259541	Oct. 17. 89	Japan			ļ	

Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner Initial	Desig. ID	Document		
<b>1</b>	ANNNN	"Strengthening Mechanisms in Elgiloy", Journal of Materials Science, 19, pp. 2815-2836		
Ť	A0000	ASM International Handbook Committee, Metals Handbook Tenth Edition, 2:, Properties and		
	АРРРР	ASM International Handbook Committee, Metals Handbook Tenth Edition, 1:, Properties and Selection: Irons, Steels, and High-Performance Alloys, pp. 841-871 (1990)		
	AQQQQ	DFT (Drawn Filled Tubing)		
	ARRR	Klinger, L.J. et al., MP35N Alloy-The Ultimate Wire Material		
	ASSSS	Schneider, PCT/IB95/00253 Search Report, October 1995		
	ATTTT	Schneider, PCT/US93/11262 Search Report, November 1993		
	Αυυυυ	Sigwart, J., et al., Intravascular Stents to Prevent Occlusion and Restenosis after Transluminal Angioplasty, N.E. Journal of Medicine, 316: 701-706 (1987)		

Examiner Signature	Date Considered 08/23 /205-4				
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with					